



PubMed

Nucleotide

Protein

Genome

Structure

PMC

Taxonomy

OMIM

Bio

Search for

Limits

Preview/Index

History

Clipboard

Details

 ☐ 1: U28724. Mus musculus DNA ...[gi:896062]

Links

LOCUS MMU28724 3056 bp mRNA linear ROD 09-FEB-1996

DEFINITION Mus musculus DNA mismatch repair (PMS2) mRNA, complete cds.

ACCESSION U28724

VERSION U28724.1 GI:896062

KEYWORDS .

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 3056)

AUTHORS Baker, S.M., Bronner, C.E., Zhang, L., Plug, A., Robatzek, M.,
Warren, G., Elliot, E.A., Yu, J., Ashley, T., Arnheim, N., Flavell, R.A.
and Liskay, R.M.

TITLE Male mice defective in the DNA mismatch repair gene PMS2 exhibit
abnormal chromosome synapsis in meiosis

JOURNAL Cell 82 (2), 309-319 (1995)

MEDLINE 95354212

PUBMED 7628019

REFERENCE 2 (bases 1 to 3056)

AUTHORS Liskay, R.M.

TITLE Direct Submission

JOURNAL Submitted (07-JUN-1995) Michael R. Liskay, Oregon Health Sciences
University, Portland, OR, 97201-3098, USA

FEATURES

source Location/Qualifiers

1..3056

/organism="Mus musculus"

/mol_type="mRNA"

/db_xref="taxon:10090"

/cell_line="PCC4 teratocarcinoma"

gene 1..3056

/gene="PMS2"

CDS 186..2765

/gene="PMS2"

/function="DNA mismatch repair"

/codon_start=1

/product="PMS2"

/protein_id="AAA87031.1"

/db_xref="GI:896063"

/translation="MEQTEGVSTECAKAIKPIDGKSVHQICSGQVILSLSTAVKELIE
NSVDAGATTIDLRLKDYGVDLIEVSDNGCGVEEENFEGALALKHHTSKIQEFADLTQVE
TFGFRGEALSSLCALSDVTISTCHGSASVGTRLVFDHNGKITQKTPYPRPKGTTVSQ
HLFYTLPVRYKEFQRNIKKYKSMVQVLQAYCIIISAGVRVSCTNQLGQGRHAVVCTS
GTSGMKENIGSVFGQKQLQSLIPFVQLPPSDAVCEEYGLSTSGRHKTFSTFRASFHSA
RTAPGGVQQTGSFSSSIRGPVTQQRSLSLSMRFYHMYNRHQYPFVVLNVSDSECVDI
NVTPDKRQILLQEEKLLLAVLKTSLIGMFDSDANKLVNQQPLLDVEGNLVKLHTAEL
EKPVPKGQDNPSLKKSTADEKRVASISRLREAFSLHPTKEIKSRGPETAELTRSPFSE
KRGVLSSYPSPDVISYRGLRGSQDKLVSPDTPGDCMDREKIEKDSGLSSTSAGSEEEF

STPEVASSFSSDYNVSSLEDPRSQETINCGDLDCRPPGTGQSLKPEDHGYQCKALPLA
RLSPTNAKRFKTEERPSNVNISQRLPGPQSTSAEVDVAIKMNKRIVLLEFSLSSLAK
RMKQLQHLKAQNKHELKSYRKFRACIKPGENQAAEDELKKEISKSMFAEMEILGQFNLG
FIVTKLKEDLFLVDQHADEKYNFEMLQQHTVLQAQRLITPQTLNLTAVNEAVLIENL
EIFRKNGFDFVIDEDAPVTERAKLISLPTSKNWTFGPQDIDELIFMLSDSPGVMCRPS
RVRQMFASRACRKSVMIGTALNASEMKKLITHMGEMDHPWNCPHGRPTMRHVANLDVI
SQN"

BASE COUNT 885 a 688 c 757 g 726 t
ORIGIN

```
1 gaattccggt gaaggtcctg aagaatttcc agattcctga gtatcattgg aggagacaga
61 taacctgtcg tcaggtaacg atggtgtata tgcaacagaa atgggtgttc ctggagacgc
121 gtcttttccc gagagcggca cgcgaactct cccgcggtga ctgtgactgg aggagtcttg
181 catccatgga gcaaaccgaa ggcgtgagta cagaatgtgc taaggccatc aagcctattg
241 atgggaagtc agtccatcaa atttgttctg ggcaggtgat actcagttta agcaccgctg
301 tgaaggagtt gatagaaaat agtgtagatg ctggtgctac tactattgat ctaaggctta
361 aagactatgg ggtggacctc attgaagttt cagacaatgg atgtggggta gaagaagaaa
421 actttgaagg tctagctctg aaacatcaca catctaagat tcaagagttt gccgacctca
481 cgcaggttga aactttcggc tttcgggggg aagctctgag ctctctgtgt gcactaagtg
541 atgtcactat atctacctgc caggggtctg caagcgttgg gactcgactg gtgtttgacc
601 ataatgggaa aatcacccag aaaactccct acccccgacc taaaggaacc acagtcagtg
661 tgcagcactt attttataca ctaccctgtc gttacaaaga gtttcagagg aacattaaaa
721 aggagtattc caaaatggtg caggtcttac aggcgtactg tatcatctca gcaggcgctc
781 gtgtaagctc cactaatcag ctccgacagg ggaagcggca cgctgtggtg tgcacaagcg
841 gcacgtctgg catgaaggaa aatatcgggt ctgtgtttgg ccagaagcag ttgcaaagcc
901 tcattccctt tgttcagctg cccctagtg acgctgtgtg tgaagagtac ggcctgagca
961 cttcaggacg ccacaaaacc ttttctacgt ttcgggcttc atttcacagt gcacgcacgg
1021 cgccgggagg agtgcaacag acaggcagtt tttcttcac aatcagaggc cctgtgacct
1081 agcaaaggtc tctaagcttg tcaatgaggt tttatcacat gtataaccgg catcagtacc
1141 catttgtcgt ccttaacggt tccgttgact cagaatgtgt ggatattaat gtaactccag
1201 ataaaaggca aattctacta caagaagaga agctattgct ggccgtttta aagacctcct
1261 tgataggaat gtttgacagt gatgcaaaca agcttaatgt caaccagcag ccactgctag
1321 atgttgagg taacttagta aagctgcata ctgcagaact agaaaagcct gtgccaggaa
1381 agcaagataa ctctccttca ctgaagagca cagcagacga gaaaagggtg gcatccatct
1441 ccaggctgag agaggccttt tctcttcac ctactaaaga gatcaagtct aggggtccag
1501 agactgctga actgacacgg agttttccaa gtgagaaaag ggcgtgtta tcctcttacc
1561 cttcagacgt catctcttac agaggcctcc gtggctcgca ggacaaattg gtgagtccca
1621 cggacagccc tgggtgactgt atggacagag agaaaataga aaaagactca gggctcagca
1681 gcacctcagc tggctctgag gaagagttca gcacccaga agtggccagt agctttagca
1741 gtgactataa cgtgagctcc ctagaagaca gaccttctca ggaaaccata aactgtggtg
1801 acctggactg ccgtcctcca ggtacaggac agtccttgaa gccagaagac catggatata
1861 aatgcaaagc tctacctcta gctcgtctgt caccacaaa tgccaagcgc ttcaagacag
1921 aggaaagacc ctcaaagtgc aacattttct aaagattgcc tggctcctcag agcacctcag
1981 cagctgaggt cgatgtagcc ataaaaatga ataagagaat cgtgctcctc gagttctctc
2041 tgagttctct agctaagcga atgaagcagt tacagcacct aaaggcgcag aacaaacatg
2101 aactgagtta cagaaaattt agggccaaga tttgccctgg agaaaaccaa gcagcagaag
2161 atgaactcag aaaagagatt agtaaatcga tgtttgcaga gatggagatc ttgggtcagt
2221 ttaacctggg atttatagta accaaactga aagaggacct ctctctggtg gaccagcatg
2281 ctgcggatga gaagtacaac tttgagatgc tgcagcagca cacggtgctc caggcgcaga
2341 ggctcatcac accccagact ctgaacttaa ctgctgtcaa tgaagctgta ctgatagaaa
2401 atctggaaat attcagaaaag aatggctttg actttgtcat tgatgaggat gctccagtca
2461 ctgaaagggc taaattgatt tccttaccaa ctagtaaaaa ctggaccttt ggaccccaag
2521 atatagatga actgatcttt atgttaagtg acagccctgg ggtcatgtgc cggccctcac
2581 gagtacagca gatgtttgct tccagagcct gtcggaagtc agtgatgatt ggaacggcgc
2641 tcaatgcgag cgagatgaag aagctcatca cccacatggg tgagatggac caccctgga
2701 actgccccca cggcaggcca accatgaggg acgttgccaa tctggatgtc atctctcaga
2761 actgacacac ccctttagc atagagttta ttacagattg ttcggtttgc aaagagaagg
2821 ttttaagtaa tctgattatc gttgtacaaa aattagcatg ctgctttaat gtaactggatc
2881 catttaaaag cagtgttaag gcaggcatga tggagtgttc ctctagctca gtaacttggg
2941 tgatccggtg ggagctcatg tgagcccagg actttgagac cactccgagc cacattcatg
3001 agactcaatt caaggacaaa aaaaaaaga tatttttgaa gccttttaaa aaaaaa
```

[Disclaimer](#) | [Write to the Help Desk](#)
[NCBI](#) | [NLM](#) | [NIH](#)

Jun 5 2003 10:18:45